

# **2011 INTERNATIONAL WORKSHOP ON ENVIRONMENT AND ALTERNATIVE ENERGY**

**“Global Collaboration in Sustainable Environmental and  
Alternative Energy Strategies”**

**Noordwijk, The Netherlands – November 15 – 18, 2011**

## **(Draft Agenda)**

### **Monday, November 14**

**Tour the Port of Rotterdam – World Port Center – 8:00am – 12:00pm**

**Welcome Reception – Palace Hotel – 5:00 – 7:00pm**

Presentation from the Mayor of Noordwijk, Jan Pieter Lokker

### **Tuesday, November 15**

**Welcome, Keynote Address 9:00—11:30am**

Opening remarks—Olga Dominguez, NASA, General Castelo Branco, C3P,  
Franco Ongaro, Giuseppe Morsillo and Christer Fuglesang of ESA

**Panel Discussion – The Challenges of Operating Installations**

**Across Borders 11:30—1:00pm**

Debra Dale, IMCOM, Paul Cannock, ESA, and Gisela Suess, ESA Partnership Attorney

**Materials Management and Substitution in Support of  
Space Operations, Part 1 - 2:00—5:00pm**

Impact of Environmental Legislation on European Space Sector - an ESA View,  
Mikko Nikulainen, ESA

Obsolescence Management for Materials and Processes, Thomas Rohr, ESA  
NASA TEERM Hexavalent Chrome Alternatives Projects, Matt Rothgeb, NASA TEERM  
Rare Earth Metals Scarcity, Mick Bilney, TEC

Development of Green Propellants – HPGP Technology, Mathias Persson, ECAPS  
Solvent Replacement Activities, Claire Tonon, Astrium EADS

### **Wednesday, November 16**

**Student Presentations 9:00—4:30pm**

Student Presentations and Poster Session on Related International and Domestic  
Research

Opening Remarks - Kai-Uwe Schrogl, ESA

Keynote – Francesco Emma and Leland Melvin of ESA

**Student Reception and Awards Ceremony 4:30—7:00pm**

## **Thursday, November 17**

### **Keynote Address 9:00 – 9:45am**

NASA/ESA Sustainability Report, Nathalie Meusy, ESA and James Leatherwood, NASA

### **Emerging Renewable and Alternative Energy**

#### **Technologies 9:45-1:00pm**

Space Programmes Supporting Energy Challenges, Isabelle Duvaux-Béchon, ESA

Fuel Cell Economics, Koen Schoots, ECN

When and How to Decarbonize the Transport Sector?, Hilke Rösler, ECN

Concentrated Solar Air Conditioning, Al Sorkin, NASA TEERM

Wind Turbines Monitoring System, Jorge Gabriel, ISQ

ESA Building Best Practices, Laurent Jauniaux, ESA

### **Sustainable Development and Redevelopment 2:00—5:00pm**

ESRIN Experience, Alessandro Gigante, ESA

MELISSA Project, Christophe Lasseur, ESA

ECOS Project, Mariana Periera, C3P

Advancements in LED Lighting for Energy Savings, Fred Maxik, Lighting Science Group

Green Islands – A Pathway to Energy Sustainability, Prof. Paulo Ferrão, MIT-Portugal

Building Configurator: A Sustainable Solution, Alexandre Almeida, Opway Group

## **Friday, November 18**

### **Keynote Address 9:00—9:45am**

Solar Energy Applications, Arnulf Dinkel, Fraunhofer Institute

### **Materials Management and Substitution in Support of Space**

#### **Operations, Part 2 - 9:45—10:45am**

NASA/DoD Lead Free Electronics Project Status, Brian Greene, ITB-Inc.

European Aerospace: Outlook and Activities to Cope with Lead Free Risks,

Augustin Coello-Vera, Thales Alenia Space

### **Remediation Technologies and Strategies 10:45—1:00pm**

Installation Management Command Europe - Remediation Overview and Challenges,  
Mary Kay Foley, IMCOM

NASA Remediation Overview and Challenges, Dave Amidei, NASA HQ

Communication and Stakeholder Involvement for Remediation: Lessons Learned,  
Merrilee Fellows, NASA HQ (JPL)

TPS Technologies Presents a Breakthrough in Thermal Technology to Remove All  
Organic Contaminants from Soil In Situ - Winner of the Dutch Innovation Award 2011  
for Environmental Technology, Marten Kingmans, TPS Technologies